

FIG. 1

2/11

CC-NUMA Memory Latency

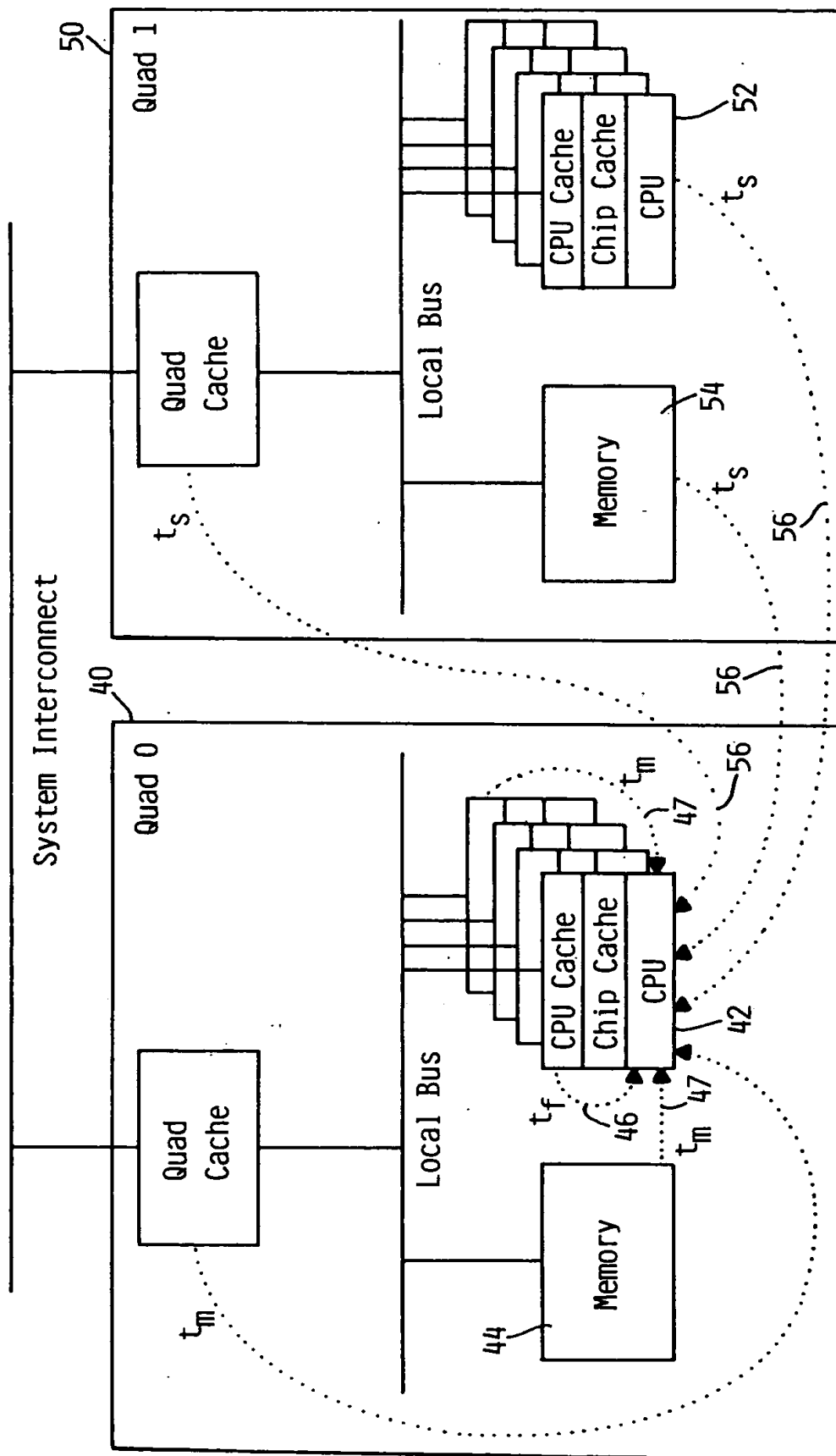


FIG. 2

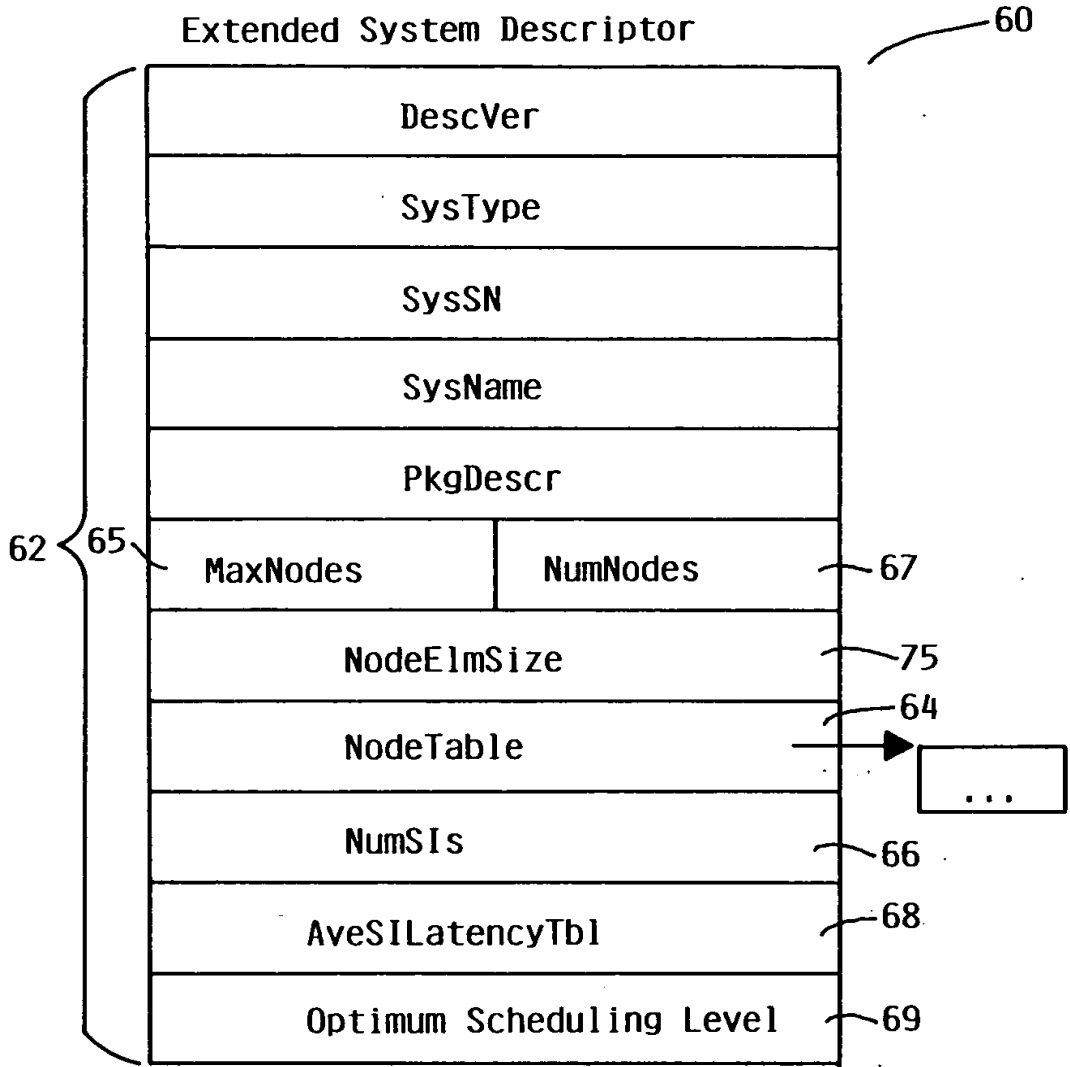
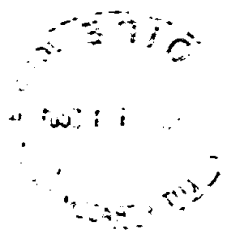


FIG. 3

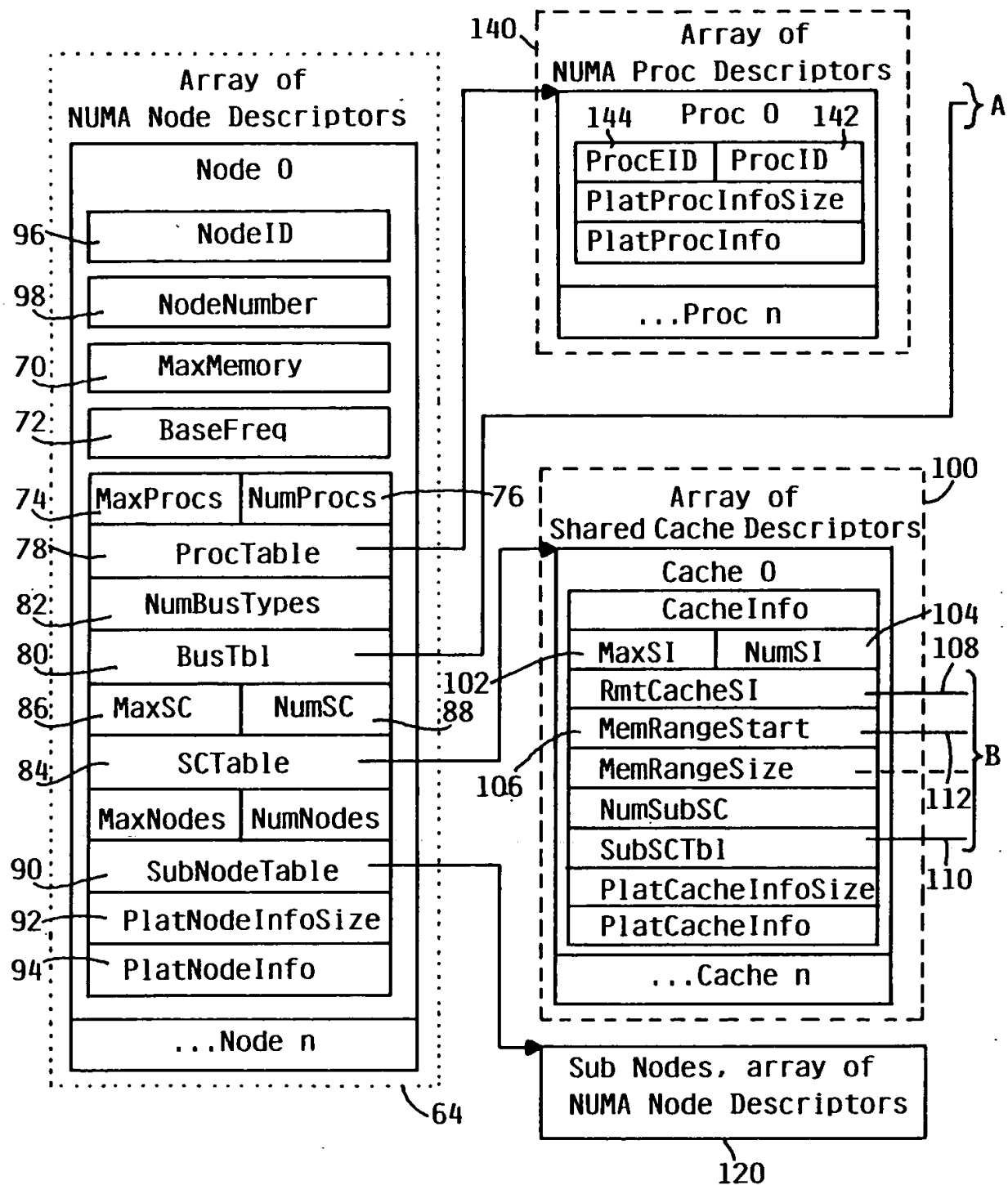
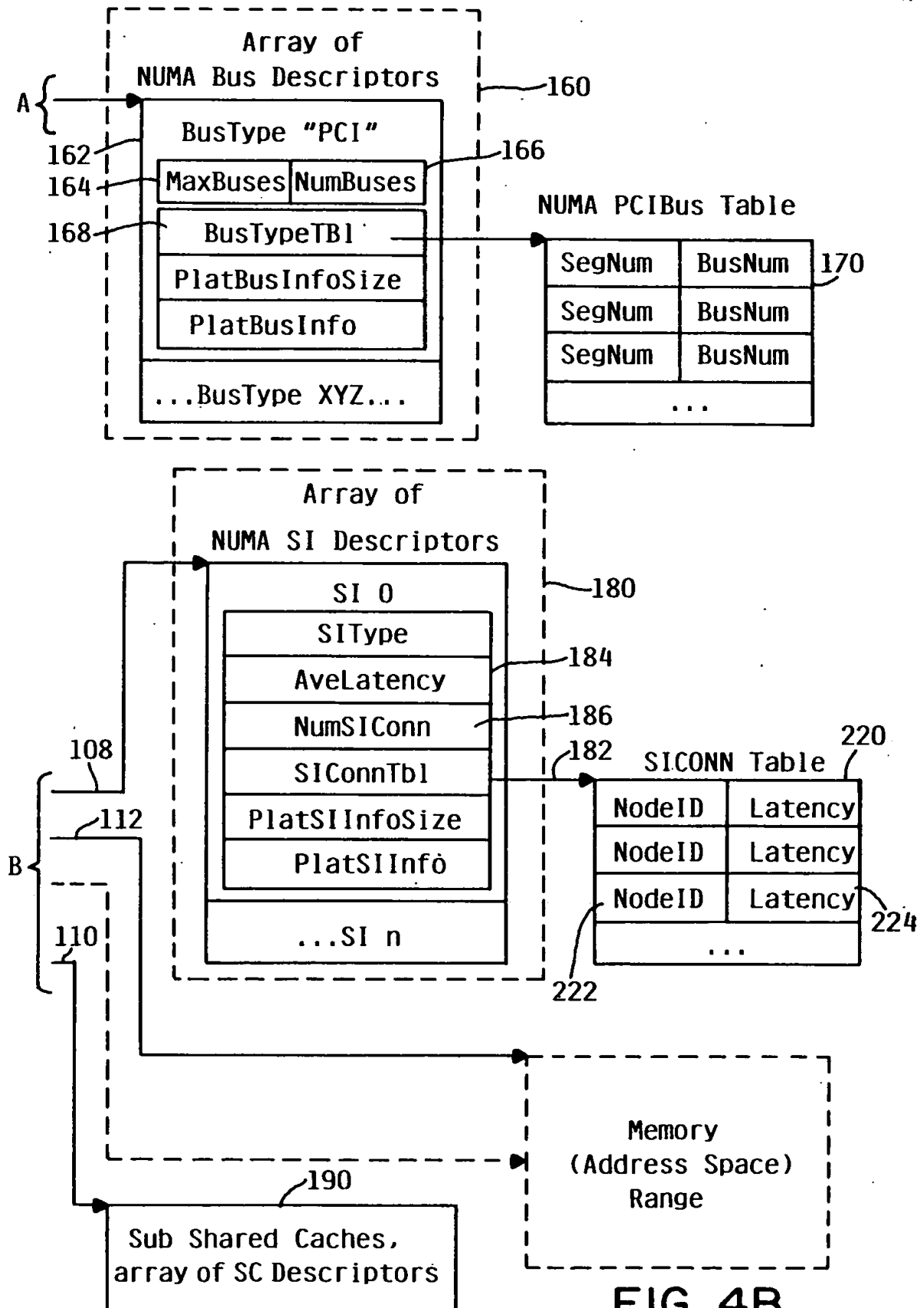


FIG. 4A

5/11



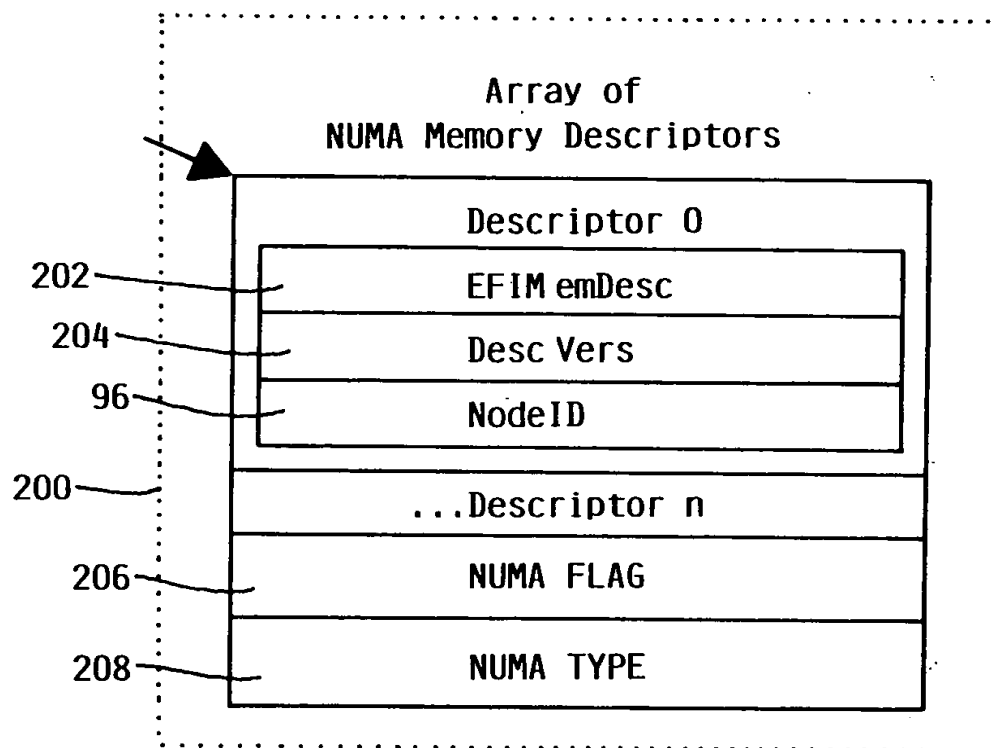


FIG. 5

NUMA Resource Description

NUMA Memory Map

200

NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	} A
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	} B
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
NodeID	Start	Length	Type	Flags	---
...					
NodeID	Start	Length	Type	Flags	---

FIG. 6A

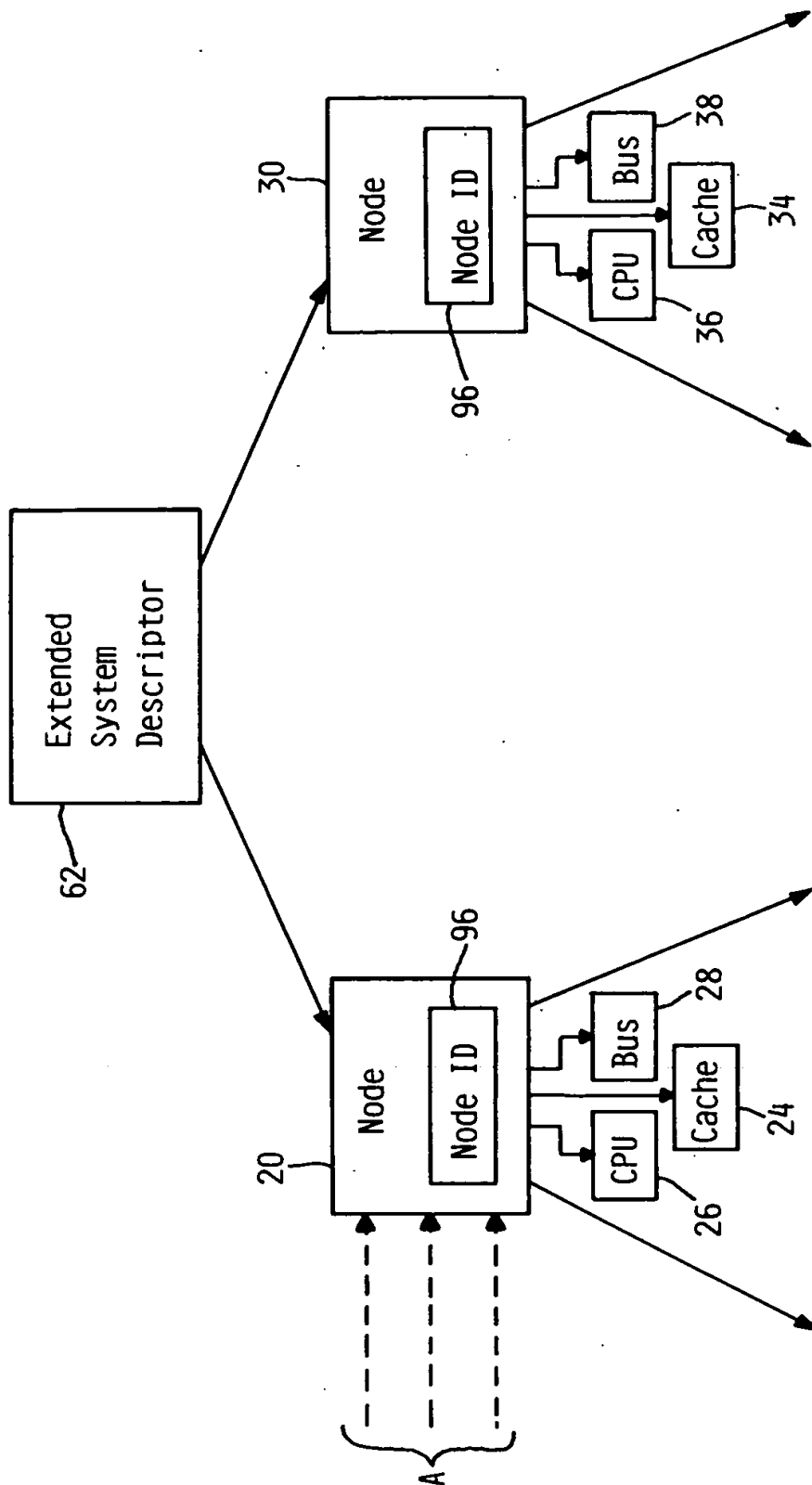


FIG. 6B

... additional levels of nodes ...

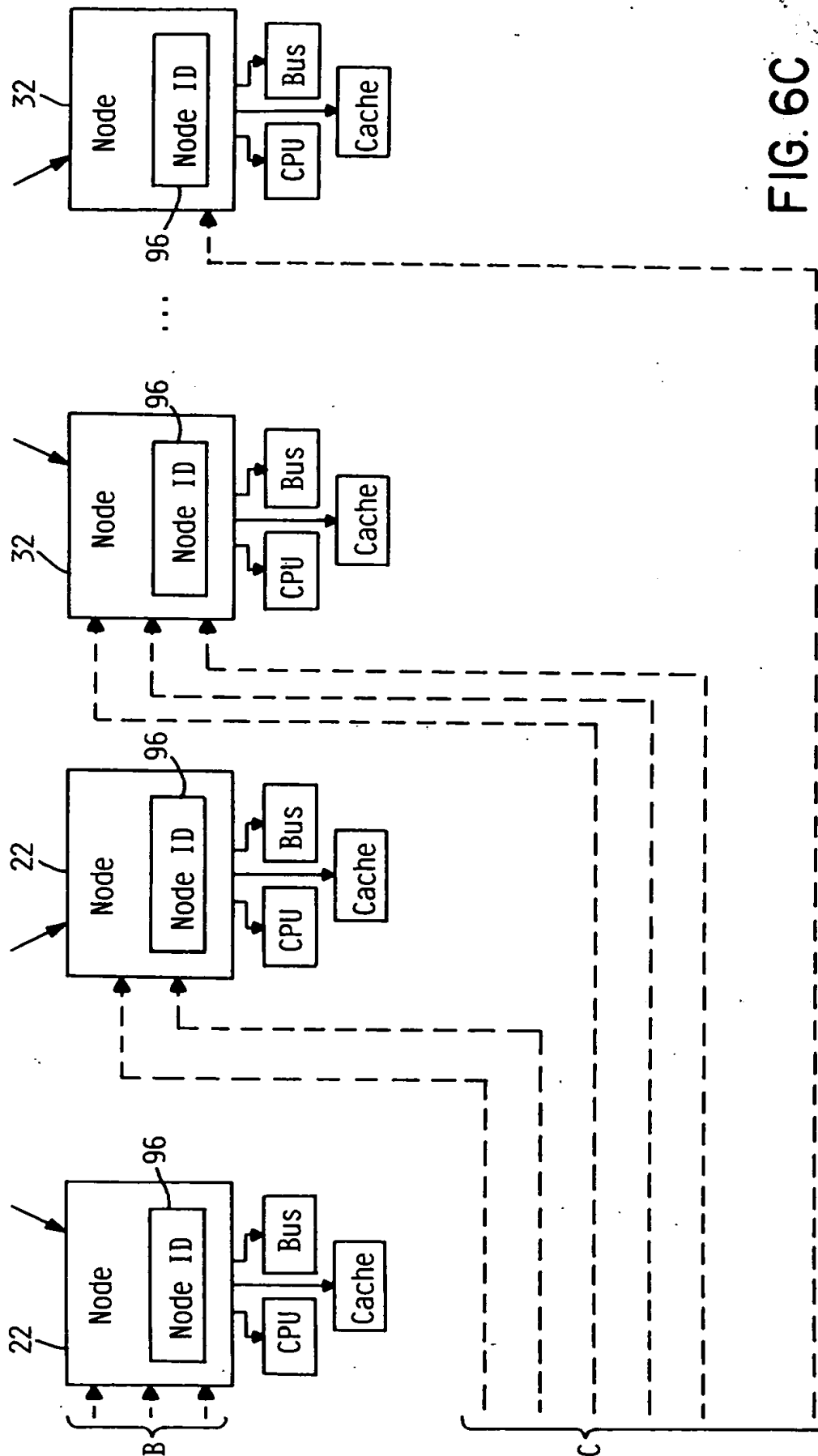
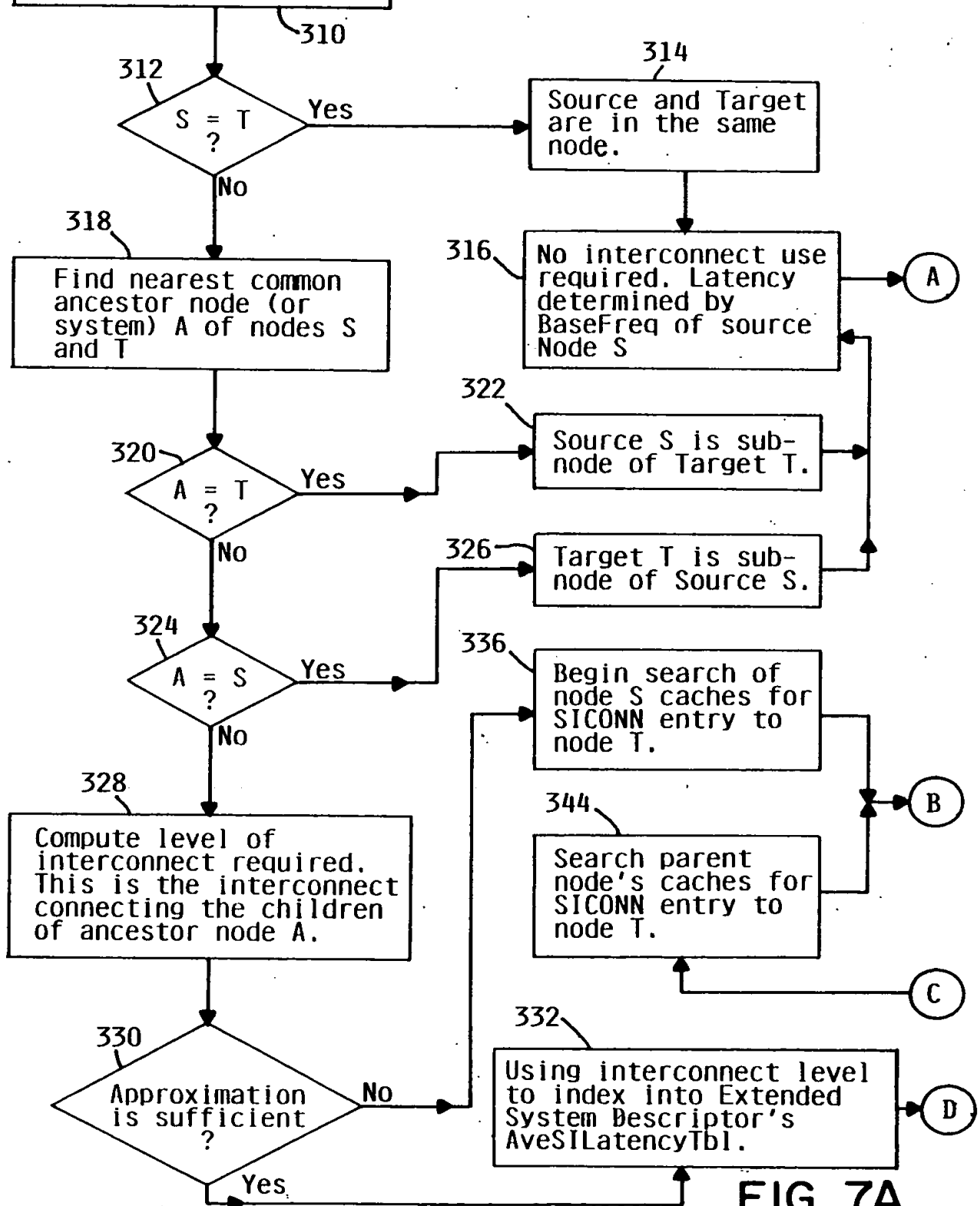


FIG. 6C

If not already known, obtain source NodeID S and target NodeID T. (Lookup in Memory Map, or derive from a resource ID.)

Example Resource Access Costing using NUMA Resource Description data structures



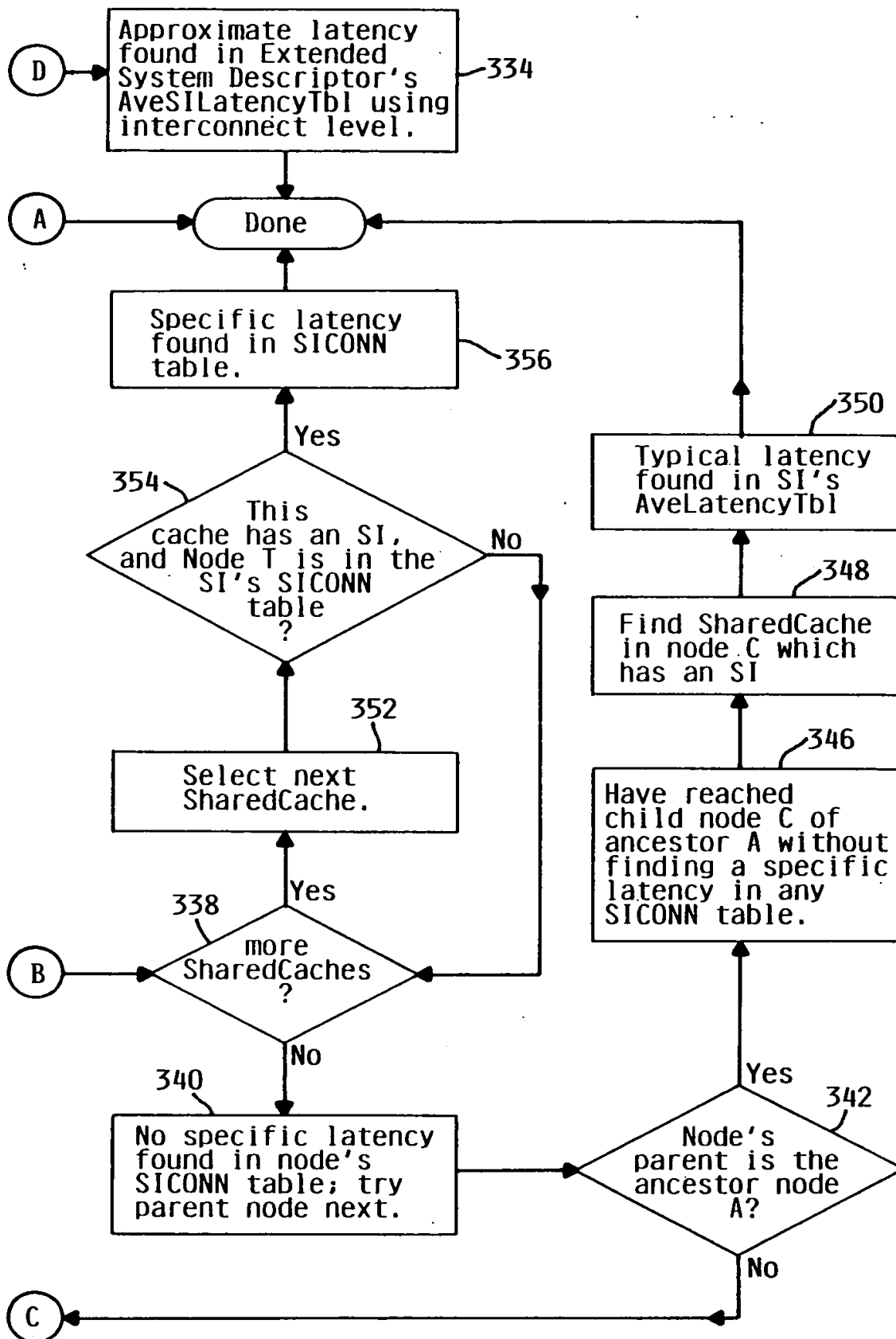


FIG. 7B